



User Manual

Universal Receiver uRx



A Division of TRAP INTERNATIONAL C.C.

OPERATORS MANUAL (Universal Receiver uRx)

Introduction

Congratulations on your purchase of a Roboguard Universal Receiver.

Installation and wiring

The installer's manual is available for people wishing to do a self-installation. Be careful as unqualified people can damage the device at installation and this damage is not covered by our warranty.

General Operation

The Universal Receiver (uRx) is used to remotely trigger the operation of electronic devices from Roboguard signals. The uRx can be "taught" to respond to any particular roboguard radio message. Once the uRx has learned a roboguard code, every time it receives that radio message, it will respond by triggering the connected device. This connected device may be an alarm system, a camera system, a siren, an SMS module, in fact any device capable of being triggered by an electronic signal.

In the example above a uRx can be programmed to respond to a radio message from a Roboguard handheld remote. This handheld remote can then be used as a panic button and the uRx can be used to operate an SMS module to send an sms call for help in response to the panic signal. Another popular use will be to open a garage door.

Your installer must connect the uRx to a power source and to the device that you wish to trigger. The installer must also configure the options on the uRx to correctly trigger the connected device and must marry the transmitter to the uRx through a learning process.

The uRx will flash its status LED at different flash rates depending on the configured options as set

up by your installer.

Maintenance

There are no user maintainable parts or considerations.

Support

Properly installed Roboguards do not false alarm. Ensure that your system is properly installed and configured.

Please visit www.roboguard.co.za/forum for online support.

Warranty

All Roboguards systems carry a 2 year factory warranty, a lifetime warranty against UV damage and the guards themselves carry a lifetime warranty against lightning damage.

Technical Details	
Dimensions:	104 X 64 X 27
Mass:	100 g
Current Consumption:	+ _ 25 mA
Required receiver	UHF 433.92 MHz
Required Power Supply	12V DC
Colour:	White
Packing Contents	
uRx module	uRx manual

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Installation Manual

Introduction

The uRx can be used as a data receiver and as a Roboguard Decoder. It will learn ANY roboguard signal (ie tamper, intruder, remote and Autotest) unlike the HQ and Keypad modules which only learn tamper signals. Upon reception of the learned signal the uRx will trigger a connected device. Note that the uRx does NOT supervise the radio link.

+12V, 0V, RxData (RXO) and Trigger (N/C) Pin-outs are clearly indicated on the unit. The 2-way dip switch is used to configure the polarity (SW1) and the Switch timing (SW2). Another version the uRxL should be used for latching requirements. The I/O1 and I/O2 terminals are not used in this device.

The raw data from the radio is also available at the connector on RXO for connection to keypads or other decoder devices.

The unit has 3 LEDs, one displaying RF data, one showing the output (NC) status and one used for showing the status of the unit which will vary its flash rate for different option settings.

Installation

Position the uRx in a position suitable for the reception of radio signals from the intended source. Check for radio interference by observing the flashing of the RF LED. If the RF led is flashing brightly and continuously then you may have a problem with radio reception. Confirm this by transmitting from a roboguard product to see how the RF-led flashes for data reception.

Obviously the device to be triggered will need to be located closely.

Wiring

Wire the uRx to +12V and 0V, ensuring the 0V is common with the 0V of the device to be switched.

Wire the data line or the trigger (NC) outputs as needed.

The NC output is an open-collector low-side driver capable of sinking 500mA continuously. It can therefore be used to drive sirens, relays etc. Should it be used as a data output then a (typ 1k) pull-up resistor will need to be used at the connected device.

Coding

As you require the unit to decode a radio message then you must teach the uRx the code of the roboguard event by placing the unit into learn mode and then transmitting the relevant signal. The device is placed into learn mode by using a conductor (like a screwdriver) to short out the program pads on the PCB. The program pads are located next to the letter B on the PCB in the area of the 2-way DIL switch.

The status led will now remain on until the device learns a valid roboguard code. Transmit the desired code (tamper, remote or intruder). The status led will reset back to flashing. If the unit is powered up with the programming input shorted then the unit will erase all learned codes.

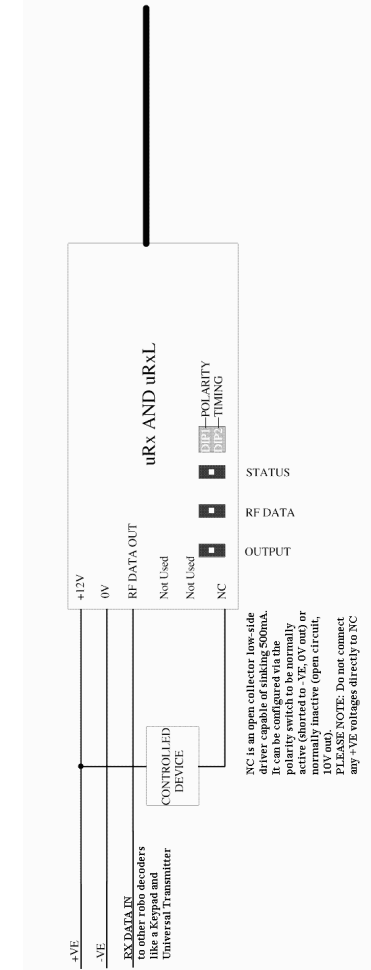
Configuration

Place the DIL switches in the required positions as per the information in the connected device's installer manual and the table below.

	ON	OFF	Function
SW1	N/O	N/C	Output polarity
SW2	minutes	1 sec	Output trigger time

Testing

The installation must be tested for RF range and for correct triggering of the connected device upon transmission of the previously learned signal.



Note that this manual is written for people who have an understanding of electrical systems and the interconnection thereof. If you are not in this position then we advise you contact an installer as you may damage the product and void the Warranty.